

# User's Manual



VOICE RECORDER  
SR-320/160  
SR-320SR/160SR



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Thank you for purchasing a RECOBOY.

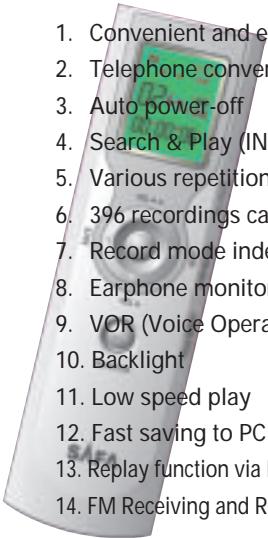
Please read this User Guide before you use your RECOBOY.

There is a warranty inside of manual.

Please state the content of warranty when you purchase it.

Please keep the warranty.

# Special features



1. Convenient and easy to carry slim-line design.
2. Telephone conversation recording
3. Auto power-off
4. Search & Play (INTRO SCAN)
5. Various repetitions
6. 396 recordings capacity
7. Record mode index separation
8. Earphone monitoring during line-in recording
9. VOR (Voice Operation Recording)
10. Backlight
11. Low speed play
12. Fast saving to PC via USB(4Mbps)
13. Replay function via EXTERNAL-SPEAKER. (Model SR-320SR/160SR)
14. FM Receiving and Replay function (Model SR-320SR/160SR)

※ Class B electronic equipment

Since this equipment is verified for domestic use by electron suitable registration law, you can use this not only in the domestic area but also in every place you want to use.

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# Cautions and Warnings

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## Cautions

1. Do not attempt to open repair, or modify your SOUND MAP.
2. Do not use this product where the use of electronic devices is prohibited (such as in aircraft, etc.).
3. Do not put this product or any of its accessories in your mouth.
4. Do not immerse this product in water or spill liquids on it.

## Warnings

1. Do not expose your Sound Map or its accessories to any shocks. This may cause it to malfunction.
2. Should the product become deformed or malfunction due to exposure to smoke or heat, remove the batteries from the main unit immediately and disconnect any external cables.
3. Do not apply excessive force to the LCD screen. It may cause damage to the LCD or cause it to malfunction.
4. Do not expose the product to direct sunlight or any source of heat for a prolonged period.
5. Remove the batteries if you do not intend to use this product for any prolonged period of time.
6. Do not pull the accessory wires (earphone, earmic, or audio cables) with excessive force.
7. Please note that we lack all sense of responsibility from damage or demanding compensation by using this product.
8. We do not have any responsibility to the losses, vanished content that breaks out, using this product or repairing it. So if there is important content, please keep it in the safe recording medium.
9. Please give attention. The speaker of this product may make a change in the content of magnetic card such as a credit card or a transportation ticket.
10. Please note that this product is prohibited from using illegal methods such as an invasion of a person's privacy or eavesdropping.  
※ The design and the specifications of the Sound MAP are subject to change without prior notice.

# Check the components

## A. Recorder and accessories (Model SR-320/160)



RECOBOY (main unit)



Adaptor for telephone conversation recording



Cable for telephone conversation recording



Stereo earphone



USB cable



External Microphone



Mono earphone for mobile phone (excluded)



Audio Cable



Battery (AAA X 1)



CD-ROM



USB User's manual



RECOBOY User's manual

## B. Recorder and accessories (Model SR-320SR/160SR)



RECOBOY (main unit)



Battery (AAA X 1)



Stereo earphone



USB cable



External Microphone



Mono earphone for mobile phone (excluded)



Audio Cable



Battery (AA X 2)



CD-ROM



USB User's manual



RECOBOY User's manual



External speaker



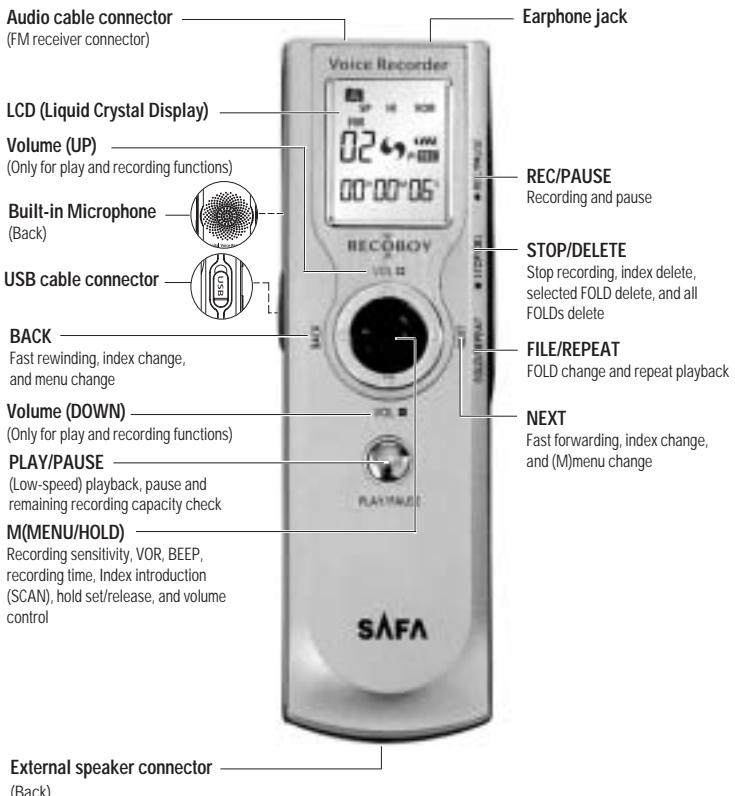
Wall Cable  
(for external speaker)



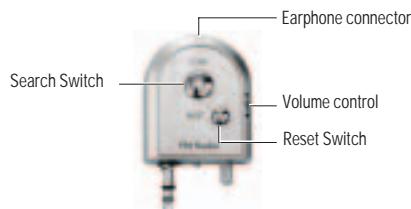
FM receiver

# Names of each part

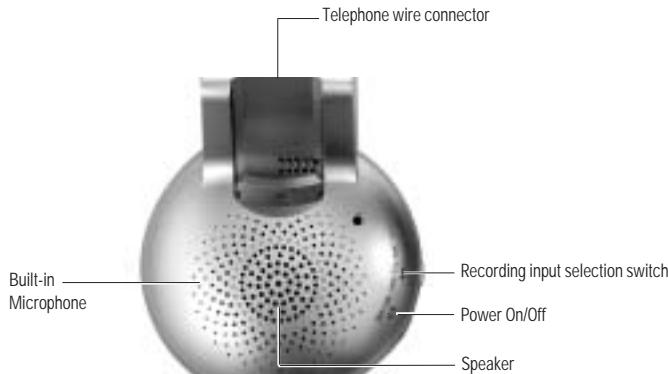
## 1 Main Unit



## 2 FM (Model SR-320SR/160SR)



## 3 External-SPEAKER (Model SR-320SR/160SR)



# LCD Indicator and Symbols



Description of Screen Display



LCD screen



A B C D	FOLD displayed	88	Index Display (01-99)
HQ/SP / LP	Recording mode indicator	(AFOLDB)	Section Repeat Playback state indicator
HI/LO	Recording sensitivity mode indicator	(CLOCK)	ALARM Display
VOR	VOR Display	(BATT)	Battery indicator
FM	FM receiving indicator	00:00:00	Play time, recording time indicator, menu change

# Replacing Batteries

1 Be sure that the power is OFF.

Do not replace the batteries while the power is on. It may cause the product malfunction.

2 Open the battery cover.



3 Insert the batteries.



1. Check the polarity of the batteries (Size "AAA") and close the cover.
2. When you have inserted the batteries, the LCD will display all indicators (Figure 1) and will switch to recording and playback standby mode (Figure 2).
3. Press PLAY/PAUSE or STOP/DEL button to switch the power on. Your Sound MAP will be in the standby mode for recording or playback. (Figure 3)
4. The power will be automatically shut off if no function is activated for 1 minute.

\* From now on, we will refer to the mode in Figure 2 as "Standby mode" (waiting for recording or playback to be activated).

(Figure 1)



(Figure 2)



(Figure 3)



## Battery life

Battery	Recording capacity	Playback capacity
Alkaline (LR03)	Approximately 7 hours (LP recording)	Approximately 6 hours

# Getting Started

\* Please insert batteries before you read the followings.

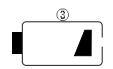
## Battery indicator



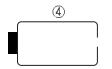
Full



Approximately half used



Almost exhausted



Fully exhausted

Replace with new batteries  
(The product may malfunction  
if the batteries are not replaced)

\* Replace the batteries if mode 3 and mode 4 are displayed one after another.



1

Static discharge or poor contact due to an external impact during battery replacement may cause the product to malfunction. Remove the batteries and insert them into the battery compartment again if this happens.

2

Remove the batteries from the main unit if you do not intend to use this product for a prolonged period of time. (Leaking batteries may cause the damage to the product)

3

If you don't use FM radio receiver, you should disconnect FM radio receiver from the main unit. It will help to save a battery.



1

## Switching RECOBOY On

Press the PLAY/PAUSE button to switch on the product. The product will switch to standby mode.

- Alternatively, you can press the REC/PAUSE button.

## Switching RECOBOY Off

The power will be automatically shut off if you do not activate any functions for 1 minute (i.e. if you don't use your RECOBOY for one minute).

(figure 2-0)



2

## Locking the button (HOLD)

HOLD function is useful for preventing false operation during play or recording.

1. Press and hold MENU(M) button (for about 2 seconds) in the standby state to set the lock state (HOLD ON).
  - If you press any other button while the unit is in HOLD ON mode, the LCD displays 'ON HOLD' and pressing the button will not result in any response from the unit. (Figure 2-1)
2. Press and hold MENU/HOLD button (for about 2 seconds) in the hold on state to release lock state.
  - The LCD will display 'OFF HOLD' indicating that the lock mode has been released. (Figure 2-2)

(Figure 2-1)



(Figure 2-2)



# Recording



## Please note the followings before you start recording

### ※ Check that the product is in standby mode.

- ▶ Press the FOLD button to select the FOLD you want. The FOLD type will be scrolled (A, B, C, and D) every time you press the button. If you do not select a FOLD, you will record in the current FOLD. (Figure 3-1)



- ▶ If the index of the current FOLD reaches 99, the recording will continue from the at the end last index of the next FOLD.
- ▶ Press the PLAY/PAUSE button to display the remaining recording capacity. (Figure 3-2)
- ▶ Slide the M(MENU) button toward NEXT to increase the size of the index while you are recording (Index separation function).
- ▶ The maximum index number for each FOLD is 99 (Up to 396 FOLDS: 99 X 4).
- ▶ If the recording time is longer than the available capacity or when the index reaches 396, 'FULL' is displayed and you cannot continue recording. (Figure 3-2)



When this happens, delete some recordings or move them to an external appliance (audio or PC) to continue recording.

- ▶ Do not remove the batteries during recording. This may cause the product to malfunction. If you intend to record for a prolonged period of time, first replace the batteries while the unit is in standby mode or power off mode.
- ▶ Do not touch or move the product while you are recording via the built-in Microphone. (Figure 3-3)  
This may cause unnecessary noise on your recording.
- ▶ The recording will automatically be paused when the level of sound resource decreases while VOR is on. (Figure 3-3)
  - The sound may be discontinued for a short period while VOR mode is activated.
  - When you use the VOR function in Low-sensitivity mode, only loud sounds will be recorded.
  - Deactivate the VOR function when recording important conversations.



## Voice Recording

※ Set recording sensitivity, file, VOR function and speed (HQ, SP, LP) before you start recording (see Page 15 and 16).

### 1 Recording with the Built-in microphone

- ※ You can use the function when the product is on the desk or table.
- 1 Direct the product's built-in microphone towards the source of the sound.
- 2 Press the REC/PAUSE button to start recording. REC will be displayed on LCD (Figure 4-1 and 4-2).
- 3 Press REC/PAUSE button to pause the recording for a short moment. (Figure 4-3)
- 4 Press REC/PAUSE button again to continue the recording.
- 5 Press the STOP/DEL button or PLAY/PAUSE button during recording or during standby mode to stop recording.



### 2 Recording with the external microphone

※ You can use the function when the product is in the pocket or bag.

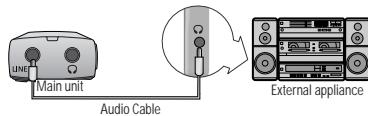
- 1 Connect the external microphone supplied with your Sound MAP to the LINE Connector.
- 2 Follow the same procedure as with the built-in microphone.

## Recording with line-in

- ※ Set the recording speed (HQ, SP, LP), file, and VOR function before you start recording (see page 15 and 16).
- ※ Sound can be distorted during playback if the volume control is set too high during recording.

### 1 Recording from external appliances (Audio, PC)

1. Sound can be distorted during recording if the volume control of the external appliance is set too high.
2. Connect one end of the audio cable to the Audio Cable Connector (LINE) of your Sound MAP and the other end to the external appliance (Audio or PC).

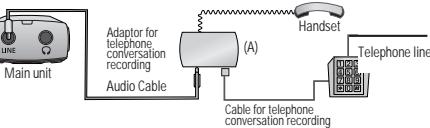


3. Adjust the Audio Cable switch to 'LINE'.
4. Plug in the earphone to listen to the sound input from the external appliance.
  - ※ Note: If you do not adjust the Audio Cable switch to 'LINE', you may not listen to the sound from the earphone or the sound can be distorted.
5. The sound from the earphone may change slightly when recording starts. However, this will not have any effect on the actual recording.
6. You can adjust the volume in the middle of recording.
7. Follow the same procedure as with the built-in microphone (See page 11).
  - ※ If you do not adjust the Audio Cable switch to 'TEL', the recorded sound will be in low volume.

### 2 Recording the general telephone conversation

※ Regarding the model SR-320SR/160SR, see page 26.

1. Connect the audio cable in the RECOOPY Audio Cable Connector (LINE). Connect the adapter and the telephone with the cable for telephone conversation recording. Then, connect the handset cable of the telephone to the adapter.
2. Adjust the Audio Cable switch to 'TEL'.



※ Note: Some type of telephone may not be used for recording. Please test the recording.

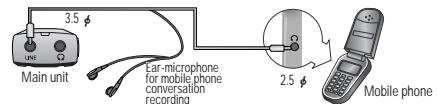
※ It may be necessary to change the direction of installation of the adaptor (marked by (A)) depending on your particular model of telephone.

3. Follow the same procedure as with the built-in microphone (See page 11).

### 3 Recording the mobile phone conversation

Only the mobile phone equipped the earphone connector can be used for recording.  
Some type of telephone may not be used for recording.

1. Connect the ear-microphone connector (excluded) to the external appliance connector and the mobile phone connector.



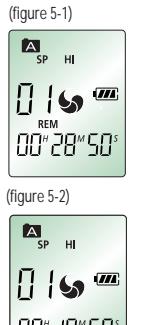
2. Follow the same procedure as with the built-in microphone. (See page 12)

# Playback

- ※ Press and hold PLAY/PAUSE button during low-speed playback to display time of the current index (recorded time: REMAIN).
- ※ Adjust volume using Volume UP/DN button during the playback.

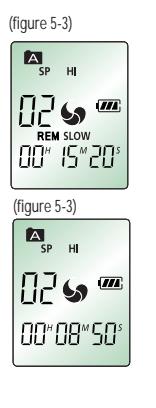
## 1 Normal Playback

1. Press the FOLD/REPEAT button to select the FOLD (A, B, C, or D) you want.
  - If you do not select a FOLD, the last FOLD you recorded will be played.
2. Slide the M(MENU) button toward NEXT and BACK and select the FILE you want to start playback.
3. Press the PLAY/PAUSE button to start playback. The recorded time will be displayed. (Figure 5-1)
4. Press the PLAY/PAUSE button again to pause.
5. Press PLAY/PAUSE button again during pause to resume the playback. (Figure 5-2)
6. Press the STOP/DELETE button during playback or pause mode to stop playback.



## 2 Low-speed Playback

1. Press the REPEAT/FILE button to select the FOLD (A, B, C, or D) you want.
  - If you do not select any file, the file that you have recorded or played the last time will be played.
2. Slide the M(MENU) button toward NEXT and BACK and select the FILE you want to start playback.
3. Press and hold PLAY/PAUSE button to start low-speed playback. The recorded time will be displayed. (Figure 5-3)
4. Press PLAY/PAUSE button briefly again during the low-speed playback to pause.
5. In low-speed playback or pause mode, press the PLAY/PAUSE button:
  - 1) long time to resume the low-speed playback. (Figure 5-3)
  - 2) briefly, to start normal playback. (Figure 5-4)
6. Press the STOP/DELETE button during playback or pause mode to stop playback.



## 3 High-speed Search 1

- ※ The followings are in the case of using NEXT or BACK button.

1. Press and hold (for at least 0.5 seconds) the NEXT button (▶) or BACK button (◀) during playback.
  - The playback stops and the time on the LCD increases or decreases rapidly.
2. Release the button when you want to start playback.
3. The search will stop when the time reaches the end of the current index if you press and hold the NEXT button (▶)
4. The search will stop when the time reaches the beginning of the current index if you press and hold the BACK button (◀).

## 4 High-speed Search 2

- ※ The followings are in the case of TIME setting.

1. Press MENU button briefly during the playback.
2. You can set up the time you want to playback.
  - If the recording time of the searched file is over one hour, the time indicator will flash. If not, the minute indicator will flash.
3. Slide the M(MENU) button toward (▲), (▼) and (▶), (◀). You can adjust the time and minute you want to playback.
4. After adjusting the time and minute, press the MENU(M) button to start the playback on the time you adjusted.

## 5 Playback on other Indexes

1. To move by one index  
Slide the M(MENU) buttons toward NEXT (▶) BACK (◀) briefly during playback or pause state.
  - The index will jump to the next or previous index for playback.
2. To move by several indexes  
Slide the M(MENU) buttons toward NEXT (▶) BACK (◀) during stop state to move to other index fast.
  - Release the button to start playback from the index displayed.

# Menu function (It works only during Stop state)

## 6 Repetition Playback

### Section Repetition

It repeats the specific section within one file.

1. Press FOLD/REPEAT button briefly where you want to start the section repetition.
- The starting point is set and the **A B** indicator flashes (Figure 21).
2. While **A B** is flashing, press FOLD/REPEAT button briefly again where you want to stop repetition.
3. The **A B** indicator will stop the flashing and the selected section will be repeated continuously.
4. Press STOP/DELETE during repetition to stop playback.
5. Press FOLD/REPEAT button briefly during repetition to stop the repetition and continue to playback.
6. Press and hold FOLD/REPEAT button to change the function into index repetition (See the below).

(figure 21)



### Index Repetition

It repeats one file.

1. Press and hold the FOLD/REPEAT button during playback.
2. The indicator will appear and the current index will be repeated continuously. (Figure 22)
3. Press STOP/DELETE during repetition to stop playback.

(figure 22)



### FOLD Repetition

It repeats all files in one FOLD.

1. Press and hold the FILE/REPEAT button during playback.
2. When the indicator appears on the LCD (Figure 23), press and hold the FOLD/REPEAT button again.
3. The FOLD appears on the LCD and the whole indices of the current FOLD will be repeated continuously. (Figure 23)
4. Press FOLD/REPEAT during FOLD repetition to stop playback.

(figure 23)



## 1 Mic Recording Sensitivity

※ The factory default is high-sensitive mode.

※ Please adjust the sensitivity according to the recording circumstances.

1. Press MENU(M) button once during the standby mode. (Figure 7-2)
2. Slide the M(MENU) button toward NEXT (▶) or BACK (◀).
3. The mode will toggle between low sensitivity mode (LO SENSE) and high sensitivity mode (HI SENSE) (Figure 7-1 and 7-2).
4. Press the MENU, PLAY/PAUSE or STOP/DELETE button, or wait about 5 seconds to select the current mode.

(figure 7-1)



(figure 7-2)



Hi SENSE : In a silent circumstance (recommended)

LO SENSE : In a noisy circumstance. Put the mic close to the source of the sound.

## 2 VOR Function

※ The factory default is VOR OFF mode.

※ Low voice cannot be recorded with this function. (DO not use this function when you want to record something very important)

1. Press the MENU/HOLD button briefly and slide M(MENU) button toward (▼) during standby mode (Figure 7-3).
2. Slide the M(MENU) button toward NEXT(▶) or BACK(◀).
3. The mode toggles between VOR ON and VOR OFF (See Figures 7-3 and 7-4).
4. Press the MENU, PLAY/PAUSE or STOP/DELETE button, or wait about 5 seconds to select the current mode.

(figure 7-3)



(figure 7-4)



### 3 Beep Setting

- \* The factory default is BEEP ON mode.
- \* If you select this function, you can hear 'beep' sound whenever you press any button.

1. Press MENU(M) button briefly and slide the M(MENU) buttons toward (▼) twice during standby mode.
2. Slide the M(MENU) button toward NEXT(▶) or BACK(◀).
3. The mode toggles between BEEP OFF (OFF BEEP) and BEEP ON (ON BEEP) (See Figures 7-5 and 7-6).
4. Press the MENU, PLAY/PAUSE or STOP/DELETE button, or wait about 5 seconds to select the current mode.

(figure 7-5)



(figure 7-6)



### 4 Recording Time Setting

- \* The factory default is standard recording mode.
- \* If you select this function, you can set up the recording quality. (Maximum recording time will be changed.)

1. Press MENU(M) button briefly and slide the M(MENU) buttons toward (▼) three times during standby mode.
2. Slide the M(MENU) button toward NEXT(▶) or BACK(◀).
3. The mode toggles among long play (LP), standard play (SP), and High quality play (HQ) (Figures 7-7, 7-8, and 7-9).
4. Press the MENU, PLAY/PAUSE or STOP/DELETE button, or wait about 5 seconds to select the current mode.

\* Note: HQ mode produces higher quality of sound than SP mode, and SP mode produces higher quality of sound than LP mode the highest quality

(figure 7-7)



(figure 7-8)



(figure 7-9)



### 5 Scan function

- \* You can listen to the first indices of all files using this function.

1. Press MENU(M) button briefly and slide the M(MENU) buttons toward (▼) four times during standby mode (Figure 7-10).
2. Press the PLAY/PAUSE button to play every index for 3 seconds from the first index of the current file (Figures 7-10 and 7-11).

\* It helps you to find the file you want among several files.

(figure 7-10)



(figure 7-11)



### 6 Clock setting

- \* This is for setting the present date and time. (It is essential if you want to set up alarm).

1. Press MENU(M) button briefly and slide the M(MENU) buttons toward (▼) five times during standby mode (Figure 8-4).
2. Slide the M(MENU) button toward NEXT(▶) or BACK(◀) to enter into a DATE set up mode.
3. Slide the M(MENU) button toward (▲) or (▼) to adjust 'date' you want. Slide the button toward NEXT(▶) once and 'month' indicator will flash. Slide the button toward (▲) or (▼) to adjust 'month'. Slide the button toward NEXT(▶) once and 'day' indicator will flash. Slide the button toward (▲) or (▼) to adjust 'day'.

\* If you slide it toward BACK(◀) during DATE setting, it will be back the last category. (i.e. year → month, month → date)

4. Slide the M(MENU) button toward NEXT(▶) to enter into a "HMS" (TIME) set up mode.

# Delete Function

5. Slide the M(MENU) button toward (▼) or (▲) to adjust 'hour(H)' you want. Slide the button toward NEXT(▶) once and 'minute(M)' indicator will flash. Slide the button toward (▲) or (▼) to adjust 'minute'. ('Second' will be set as '00' automatically when the minute is set.)

6. Slide the button toward (▶) once to exit the clock mode.

\* If you slide it toward (▶) during TIME setting, it will be back the last category.  
(i.e. minute → hour)

(figure 8-1)



(figure 8-2)



(figure 8-3)



(figure 8-4)



## 7 Alarm setting

\* This is for setting the alarm to go off at the time set.

\* Alarm will go off after sounding at the time set.

1. Press MENU(M) button briefly and slide the M(MENU) buttons toward (▼) six times during standby mode (Figure 8-5).
2. Slide the M(MENU) button toward NEXT(▶) or BACK(◀) to select 'On ALARM'. Slide the button toward (▼) to select 'HMS' mode. Slide the button toward (▲) to adjust 'hour(H)' you want (Figure 8-3). Slide the button toward NEXT(▶) and 'minute(M)' indicator will flash. Slide the button toward (▲) or (▼) to adjust 'minute'.
3. After finishing ALARM setting, slide the button toward (▶) once to exit the menu mode.

\* ALARM setting is available after CLOCK setting and slide the button toward (▼) to enter into the set up mode.

(figure 8-5)



(figure 8-6)



(figure 8-7)



## 1

### To delete a particular index

\* This is to delete indices one by one.

1. Press STOP/DEL button briefly during playback or stop state.
- The index number appears and DEL flashes while your Sound MAP still plays the music in delete standby state.
2. Slide the M(MENU) button toward NEXT(▶) or BACK(◀) to move to the index that you want to delete (Figure 9-3).
3. Press and hold the STOP/DEL button (for approximately 3 seconds) to delete the current index (Figure 9-3).
- The number of indices after the deleted index will now be decreased by one automatically.  
(i.e. If you delete the index No. 02 among the indices No. 01, 02, 03, 04, and 05, the number of index No. 01 remains as it is and the numbers of indices No. 03, 04 and 05 become 02, 03, and 04.)
4. If you do not want to delete the index, press STOP/DELETE or any other button briefly.

(figure 9-3)



## 2

### To Delete a FOLD

#### To delete a particular FOLD

This is to delete all FOLD indices you select among FOLDs of A, B, C, and D.

1. Press and hold STOP/DELETE button (for about 3 seconds) during stop state.
- The current file appears and DEL flashes (Figure 9-1).
2. Press the FOLD button to move to the FOLD you want to delete.
3. Press and hold STOP/DELETE button (for about 3 seconds) again to delete all the indices in the selected FOLD. Your Sound MAP will stop playing at the FOLD. (Figure 9-1)
4. If you do not want to delete the file, press STOP/DELETE button briefly.

(figure 9-1)



#### To delete all FOLDS

This is to delete whole memories in the unit.

1. Press and hold the STOP/DELETE button (for approximately 3 seconds) during stop mode.
- The current file appears and DEL flashes (Figure 9-2).
2. Press the FOLD button to select all four FOLDs (A, B, C, D). A, B, C, D, and "ALL DEL" will appear one after another (Figure 9-2).
3. Press and hold STOP/DELETE button again to delete all the indices in all the FOLDS. Your Sound MAP will stop playing at the FOLD 'A'.
4. If you do not want to delete the files, press the STOP/DELETE button briefly.

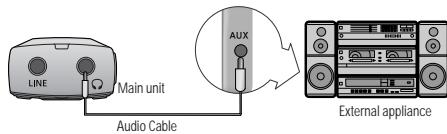
(figure 9-2)



# Saving into the external appliance

## 1 To save into the external audio (such as cassette recorder).

1. Connect one end of the audio cable to the earphone jack of your RECOBOY and the other end to the Mic input jack or AUX jack of the external audio appliance.



- ※ You need to purchase another cable if the provided audio cable does not fit the input jack of the external audio.
- 2. Press the record button on the external audio appliance and the play button on your RECOBOY simultaneously to start recording.

## 2 To save into a PC via USB

- ※ This is to save the recorded sound into your PC promptly.
- 1. Insert the enclosed CD into the CD-ROM drive on your PC.
- 2. See the separate guide for program installation details and saving method.

# To use the external speaker (Model SR-320SR/160SR)

※ The back light will not flash after connecting external speaker .

## 1 To turn on

### Using battery

1. Insert two 1.5V batteries (size AA).
2. The ON/OFF power switch should be ON.
3. If LED comes up, it is in normal condition.

### Using the AC power source

1. Connect the direct current supply adapter (DC 4.5V.) for 300 mA.
2. Turn the switch of lower end of the right side ON.
3. If LED comes up, it is in normal condition.

※ Note: After inserting batteries and you leave the switch ON, there can be inferiority. Please make sure switch OFF or leave the battery out.

## 2 To connect the main unit

1. Leave the external speaker on a suitable place and turn the power switch ON.
2. When it is connected to the main unit, the main unit will turn on automatically.
3. You can record or replay via the external speaker without batteries in the main unit.

## 3 To record and playback

※ Turn the power switch ON.

### Recording with microphone.

1. Recording input select switch should be in MIC position.
2. Press PLAY button on the main unit to stop the unit.
3. Press REC button on the top of right side to start recording.
4. Follow the same procedure as with the built-in microphone.

# To use FM radio receiver (Model SR-320SR/160SR)

\* The main unit connected to FM radio receiver does not turn off automatically.

## 1 To connect

1. Connect FM radio reception to the hole between LINE/FM connector and the earphone jack.
2. If it is connected properly, 'FM' appears on the LCD.



When you don't receive or record FM radio, disconnect the FM radio receiver from the main unit. If not, the battery will be exhausted quickly and cause a leakage.

## 2 To receive broadcasting

1. Insert the earphone into earphone jack of FM receiver and listen.
2. Adjust volume of FM receiver properly.



Please note that FM reception can be weak when you drive a car or are in the places where the radio field intensity is weak.

3. Press the SCAN switch of the FM receiver to listen the received broadcasting.
4. When the limit reaches the maximum of FM reception extent, it will not receive further broadcasting.
5. Press RESET button to return to the first section.
6. Try it again.
7. The received broadcasting does not be saved in the memory after you disconnect the FM receiver. When you connect the receiver again, you should try to receive FM again.

## 3 To record broadcasting

1. Press the SCAN switch of the FM receiver to listen the received broadcasting.
2. Adjust recording sensitivity (HQ, SP, and LP).
3. Press REC button to record the received broadcasting.
4. Follow the same procedure as with the built-in microphone.

## Recording telephone conversation.

1. Recording input select switch should be in TEL position.
2. Connect the TEL connector of an external speaker with the telephone connector on the wall.
3. Connect the LINE connector of an external speaker with a telephone.
4. Follow the same procedure as with the built-in microphone.

## Playback

1. Make sure the main unit is in stop state. If not, press PLAY button to stop.
2. Select the FOLD and index you want and press PLAY button to start playback via the external speaker.
3. Follow the same procedure as with the playback of the main unit.
4. The external speaker produces sound instead of built-in speaker.

# Specifications

Item	SR-320/320SR	SR-160/160SR
<b>Maximum Recording Time</b>	HO: 140 minutes (2 hours 20 minutes) SP: 710 minutes (11 hours 50 minutes) LP: 1140 minutes (19 hours)	HO: 70 minutes (1 hours 10 minutes) SP: 355 minutes (5 hours 55 minutes) LP: 570 minutes (9 hours 30 minutes)
<b>Weight</b>	32g (net) / 44g (battery included)	
<b>Power</b>	DC 1.5V, LRO3 (AAA X 1)	
<b>Battery Life</b>	Recording: 7 hours, Playback: 6 hours (LP mode)	
<b>Recording Media</b>	FLASH MEMORY (32MB) / FLASH MEMORY (16MB)	
<b>USB speed</b>	4Mbps	
<b>Maximum Number of Recordings</b>	Total 396 (99 per a file x 4)	
<b>Effective Maximum Output</b>	70 mW	
<b>Microphone</b>	Built-in and omni-directional capacitor microphone	
<b>Speaker</b>	23mm diameter	
<b>Feature</b>	Desktop external speaker with detachable FM radio	
<b>Dimensions</b>	29 x 100.6 x 13.5mm(Unit only)	
	29 x 35 x 13.4mm(FM Tuner only)	
	94 x 114.4 x 51mm(Speaker only)	

## Troubleshooting

Symptom	Check	Corrective action
<b>LCD is blank.</b>	The batteries are dead. The battery polarity is wrong.	Replace the batteries with new ones Insert the batteries with right polarity.
<b>I cannot record anything</b>	RECOBOY is locked (HOLD ON mode). Replace the batteries with new ones. The batteries are dead.	Release the lock mode. Replace the batteries with new ones Delete any unnecessary recordings.
<b>I cannot playback</b>	RECOBOY is locked (HOLD ON mode). The batteries are dead. Nothing is recorded yet. The volume control is on lowest position.	Release the lock mode. Replace the batteries with new ones Check the recording number. Adjust the volume control.
<b>I cannot hear anything from the speaker.</b>	Earphone is plugged in. The volume control is on lowest position.	Pull out the earphone. Adjust the volume control.
<b>I cannot hear anything from the earphone.</b>	Earphone is not fully plugged in. The volume control is on lowest position.	Fully plug in the earphone. Adjust the volume control.

## Warranty

Product Name	RECOBOY		
Model Name			
Date of Purchase	yr	mon	day
Location			Paid Amount
Tel			\$
Cust omer	Name		
	Address		
Tel			

1. This product has passed through thorough quality management and testing.
2. Any malfunction during normal use will be repaired free within the warrantee period.
3. Some service charge may apply for the services in Charged Service Guide even in the warrantee period.
4. This Warranty is valid only in the country of purchase.
5. Please fill the warrantee form and keep it at the safe place.
6. Please contact your local dealer when any problem occurs to this product.

### Charged Service Guide

1. Malfunction due to user's negligence.
2. Malfunction due to unauthorized modification or repair.
3. Malfunction due to natural hazards (such as fire, seawater, flood, or war).
4. When the warrantee period is expired.